

# Geometry 9.1 & 9.2 Study Guide: Reflections & Translations

- I can identify and draw reflections.
- I can identify and draw translations.

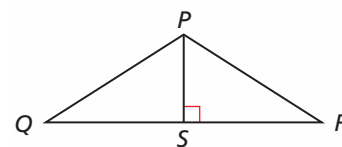
## Attendance Questions

### Matching.

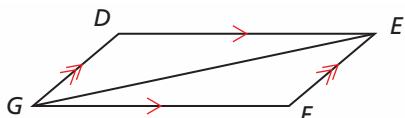
Term	Definition
1. _____ Image	A) Mapping of a figure from its original position to a new position.
2. _____ Pre-image	B) A ray that divides an angle into two congruent angles.
3. _____ Transformation	C) A shape that undergoes a transformation.
4. _____ Vector	D) A quantity that has both a size and a direction. E) The shape that results from a transformation of a figure

For questions 5 and 6, can you conclude that the given triangles are congruent? If so, explain why.

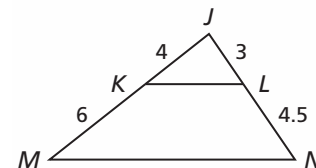
5.  $\triangle PQS$  and  $\triangle PRS$



6.  $\triangle DEG$  and  $\triangle FGE$



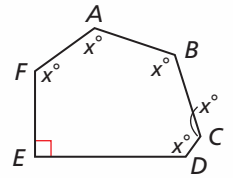
7. Can you conclude that  $\triangle JKL$  and  $\triangle JMN$  are similar? If so, explain why.



8. What is the measure of each exterior angle of a regular hexagon?

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9. Find the value of  $x$  in hexagon ABCDEF.



Complete Sketchpad activities: *Properties of Reflection*, *Line Reflections* and *The Burning Tent Problem*.

Complete 9.1 Assignment: Reflections.

Complete Sketchpad activities *Reflections over 2 parallel lines* and *Translations in the coordinate Plane*.

Complete 9.2 assignment: Translations

